

Team 4

Wrist Band Pulse Oximeter



Zach Cruz



Kehali Haileselassie



Yifan Li



Yunrui Wang



Yinxi Lin

Product Description

An easy to operate wellness device

Wrist worn pulse oximeter with finger attachment sensors

Measures pulse rate and blood oxygen levels

Bluetooth Connectivity

LCD display



FROM:http://en.wikipedia.org/wiki/Pulse_oximetry#/media/File:Wrist-oximeter.jpg

Key Requirements

Proposed market price: \$100

Blood oxygen level Measuring Range: 35%-99%

Blood oxygen level Measuring Accuracy: $\pm 3\%$

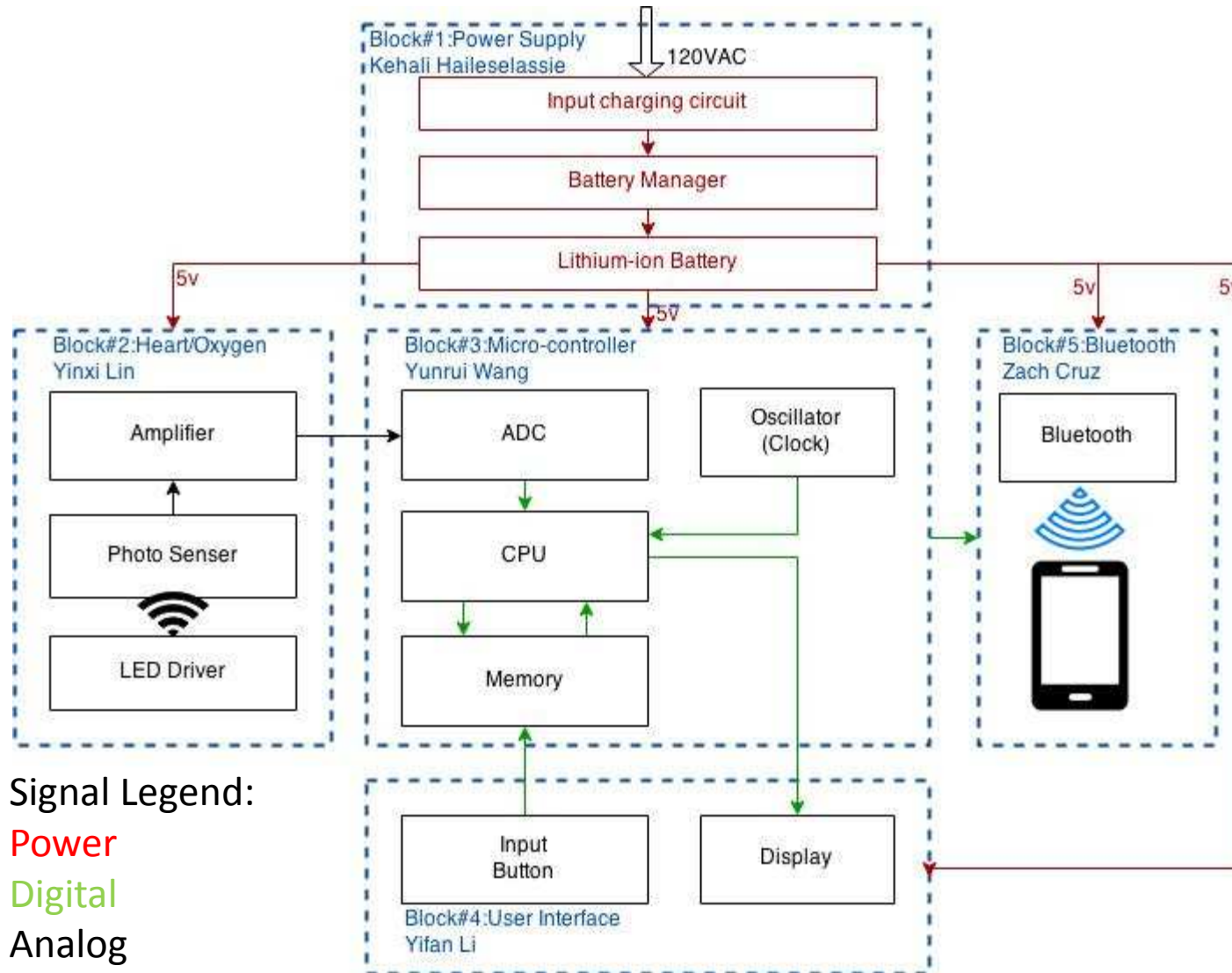
Display resolution: 320X240

Pulse Rate: 0-300bpm

Pulse Rate Accuracy: ± 2 bpm

Display resolution: 320X240

Block Diagram



Block #	Block Name	Owner
1	Power Supply	Kehali
2	Sensor	Yinxi
3	CPU	Yunrui
4	User Interface	Yifan
5	Bluetooth	Zach